

SOLENOID

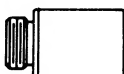
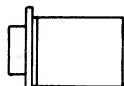
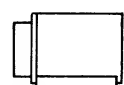
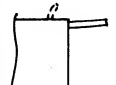

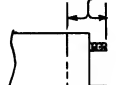

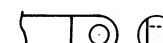
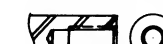
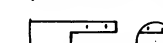
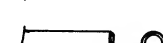
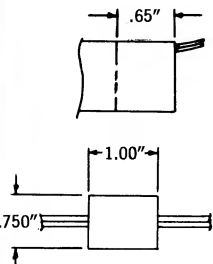
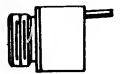
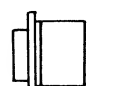

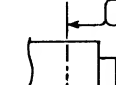


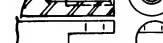
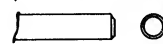

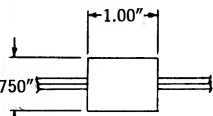

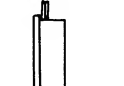


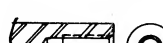
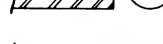
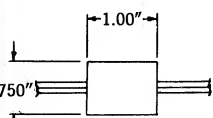




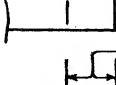

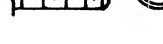

selector chart

MANUFACTURING DIVISION OF

KOONTZ WAGNER
ELECTRIC COMPANY INCORPORATED

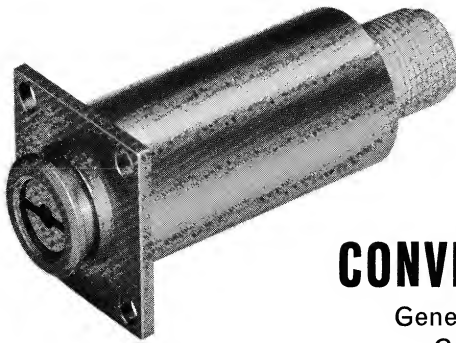
516 N. MICHIGAN ST.
SOUTH BEND, INDIANA

STANDARD BASIC UNITS • PRECISION SEALED DESIGN

MOUNTING	LEAD TERMINATION	ARMATURE TERMINATION	ALTERNATING CURRENT Rectifier Package
(6) Mounting	(7) Leads	(8) Armature	(9) Package, If A.C.
<p>Thread </p> <p>Flange </p> <p>Bracket </p>	<p>Leads </p> <p>Add 1.55" Max. to "B" Pull Dim.</p> <p>Connector </p> <p>Add 1.30" Max. to "B" Pull Dim.</p> <p>Terminals </p>	<p>A </p> <p>B </p> <p>C </p> <p>D </p> <p>E </p>	<p></p> <p>Rectifiers in can</p> <p>Rectifiers in lead assembly</p>
<p>Thread </p> <p>Flange </p>	<p>Leads </p> <p>Add 1.40" Max. to "B" Pull Dim.</p> <p>Connector </p>	<p>A </p> <p>B </p> <p>C </p> <p>D </p> <p>E </p>	<p></p> <p>Available in lead assembly only</p>
<p>Thread </p> <p>Flange </p>	<p>Leads </p>	<p>A </p> <p>C </p> <p>E </p>	<p></p> <p>Available in lead assembly only</p>
<p>Thread </p> <p>Flange </p>	<p>Leads </p> <p>Add 1.25" Max. to "B" Dim.</p> <p>Connector </p> <p>Add 1.00" Max. to "B" Dim.</p> <p>Conduit 1/2 NPT </p>	<p>A </p> <p>B </p> <p>E </p>	<p>The MODULAR limited inductance DC solenoid is designed for fast response particularly where intermittent power application permits a high current coil.</p> <p>A modification of the DC solenoid is used directly on AC without rectification.</p>
<p>Type A</p> <ul style="list-style-type: none"> • Low Cost • Capacitor Type Cut-off • Min. Time Between Cycles—200 MS • Polarized • Solid State Potted Components 	<p>Type B</p> <ul style="list-style-type: none"> • Moderate Cost • Adjustable Sharp Cut-off • Min. Time Between Cycles—50 MS • Polarized • Solid State Potted Components 	<p>Type C</p> <ul style="list-style-type: none"> • High Ambient Operation • Sharp Cut-off • Min. Time Between Cycles—25-50 MS • Polarized • Solid State—High Temperature Potted Components 	<p>Driver Control can be used with the 10% intermittent Modular DC Solenoid to give fast response. It can be used with any intermittent DC solenoid to give high force in a small package with low continuous current drain. Special controls are available for time delay and other applications.</p>

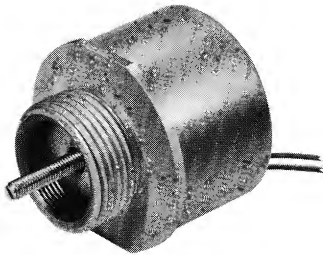
A complete line designed to offer, in basically standardized units, the features most requested in Industrial Automation... Aerospace... Computers. The first complete line to offer solid and laminated sealed construction, with SOLID STATE control as required.

SOLENOIDS



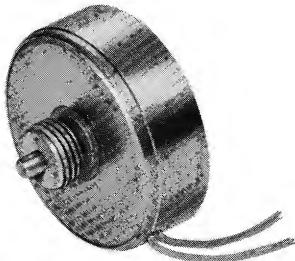
CONVENTIONAL

General Purpose
Cylindrical



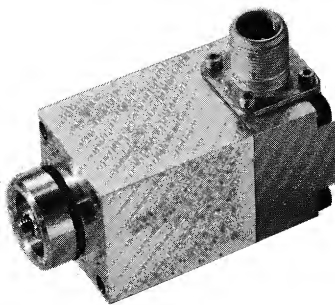
COMPACT

General Purpose • Short



WAFER[®]

Short Stroke • Flat



MODULAR

- Long Life
- Fast Cycle
- Laminated, Low-loss Core
- Dry Coil for Pressure Application



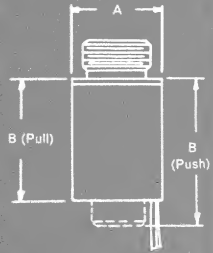
DRIVER CONTROL

BASIC SOLENOID — Direct Current

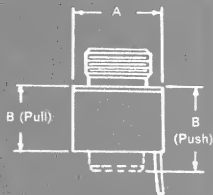
On Inquiries or Orders Specify

(1) Series No. (2) Force and Stroke (3) Volts (4) Ambient (5) Pressure

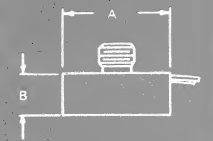
Series	Force (lbs.)—Stroke (in.)—75°F				A		B		
	.015"	.050"	.150"	.250"			Pull	Push	
8002	6.0 #	2.5 #	0.5 #	0.2 #	.750	1.195	1.475		
8005	11.0	4.0	2.0	1.0	1.000	1.375	1.795		
8010	17.0	8.0	2.5	1.5	1.125	1.695	2.115		
8015	32.0	15.0	5.0	3.0	1.312	1.715	2.135		
8020	43.0	21.5	7.5	4.0	1.500	2.075	2.630		
8025	75.0	40.0	12.5	6.5	1.750	2.260	2.945		
8030	95.0	60.0	18.0	11.5	2.000	2.535	3.185		



8040	8.5 #	2.5 #	0.5 #	0.2 #	1.000	.825	1.250		
8045	32.5	12.5	2.5	1.5	1.500	1.075	1.630		
8050	75.0	34.0	10.5	5.5	2.000	1.350	2.000		

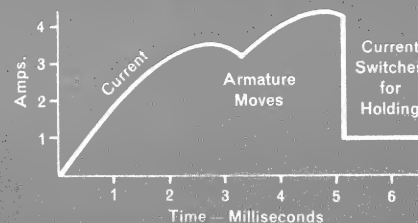
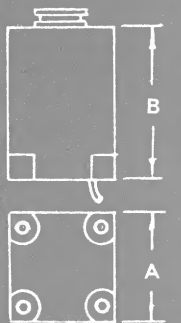


Series	Force (lbs.)—Stroke (in.)—75°F				A		B		
	.010"	.015"	.020"	.030"			Pull	Push	
8060	5.5 #	3.0 #	2.0 #	0.5 #	1.190	.500	.500		
8070	12.0	7.0	4.5	1.5	1.690	.580	.580		
8080	40.0	25.0	12.5	6.5	2.250	.750	.750		



Series	Duty	Force (lbs.)		A		B	
		.015	.030			Pull	Push
8105 DC	Cont.	4.0	1.0	1.125	2.010	1.695	
	50% on	7.5	2.5				
	10% on	20.0	12.0				
8110 DC	Cont.	8.0	2.0	1.500	2.350	2.130	
	50% on	16.0	4.0				
	10% on	45.0	20.0				
8160 AC	Cont.	4.0	3.0	1.500	2.890	2.670	
	50% on	5.0	4.0				
	10% on	6.0	5.0				

Basic Fixed Stroke



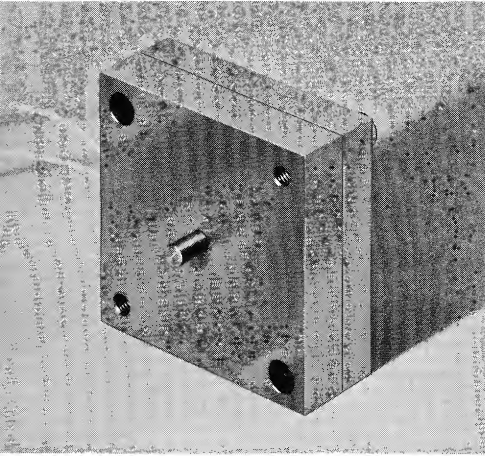
A typical driver application using Series 8110 with Type B Driver. 20# load moves .020" in 5 MS. Current then reduces to low value, holding load continuously.

MANUFACTURING DIVISION OF

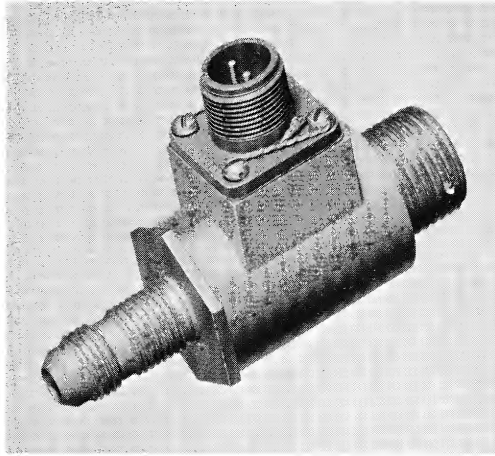
KOONTZ-WAGNER
ELECTRIC COMPANY INCORPORATED

516 N. MICHIGAN ST.
SOUTH BEND, INDIANA

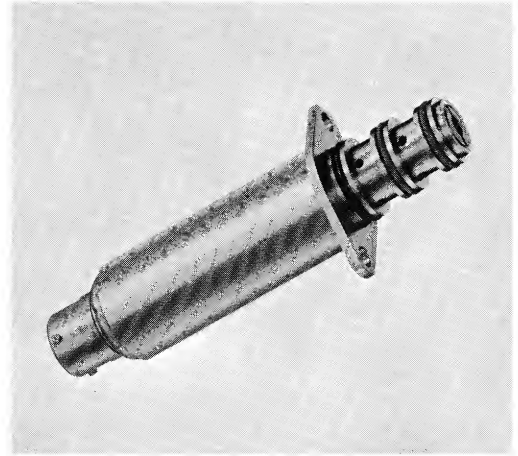
SPECIAL PRODUCTS



Commercial Wafer Solenoid. High force, short stroke operation in a reliable and economical design using a minimum number of parts.

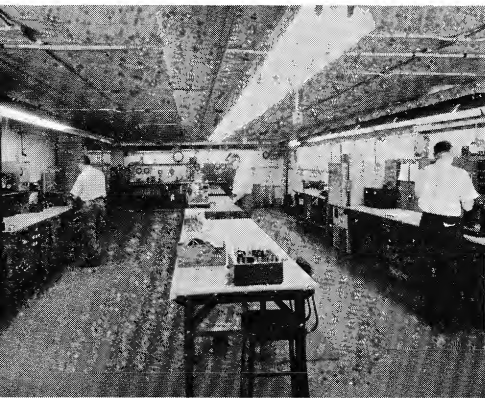


Flow-thru Solenoid for use as a valve operator where the flow thru the armature passage is necessary to the valve design.



Magnetically-latched Solenoid with an annular three-way valve. Solenoid latches in either direction when power is applied.

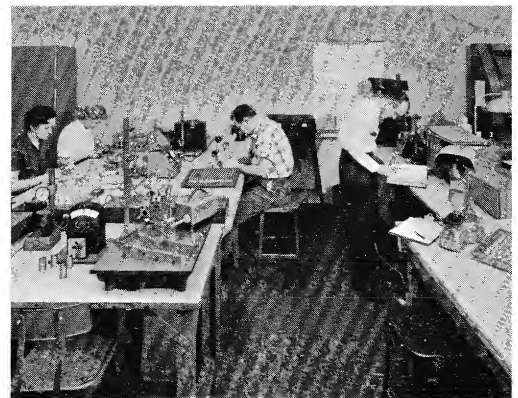
MODERN FACILITIES



Qualified and experienced engineers, plus facilities for complete research and development of the product.



Model-shop facilities for prompt prototype delivery; production machine shop equipment for quantity production.



Government approved quality control facilities for uniform and precise material control throughout production run.

KOONTZ WAGNER
ELECTRIC COMPANY INCORPORATED

516 N. MICHIGAN STREET • SOUTH BEND, IND. 46601 • PHONE: (AREA CODE 219) 232-2051